INDEX TO
EXPERIMENTAL MECHANICS
VOLUME 19, 1979

SUBJECT INDEX

Accuracy of Heterodyne Holographic Strain and Stress Determination, The — R. Dänkliker and B. Eliasson, 93-101 (Mar.).
Acoustic Emission, Amplitude Distribution Analysis of — D. Dilipkumar, V. S. R. Gudimetla and W. E. Wood, 438-443 (Dec.).
Acoustic-emission Analysis of Fracture-toughness Tests — D. Dilipkumar and W. E. Wood, 416-420 (Nov.).
Acoustic-velocity Measurement Across the Diameter of a Liquid-metal Column — C. A. Calder and W. W. Wilcox, 171-174 (May).
Acoustoelasticity, General Stress-velocity Expression in — F. Bach and V. Askegaard, 69-75 (Feb.).
Alignment Error of the Hole-drilling Method, The — Hsin-Pang Wang, 23-27 (Jan.).
Amplitude-distribution Analysis of Acoustic Emission — D. Dilipkumar, V. S. R. Gudmetla and W. E. Wood, 438-443 (Dec.).
Apparatus for Tensile Testing of Concrete, An — S. E. Swartz, K. K. Hu, C. M. Huang and G. L. Jones, 109-111 (Mar.).
Are Measurements of Geometric Imperfections of Plates and Shells Useful? — Discussion by E. E. Sechler and C. D. Babcock, 28-29 (Jan.).
Biaxial Gage Factors for Piezoresistive Strain Gages — William E. Jahsman, 411-415 (Nov.).
Biaxial-strain Transducer, High-temperature for Use to 1033°K (1400°F) — M. Lemcoe, 56-62 (Feb.).
Birefringent Polymers, On the Determination of the a-K Relationship for — G. R. Irwin, J. W. Dally, T. Kobayashi, W. L. Fourney, M. J. Etheridge and H. P. Rossmanith, 121-128 (Apr.).
Brittle Coatings, Manual, Chapter V — Ferdi B. Stern, 221-224 (June).
Buckling of Cylindrical Shells of Variable Wall Thickness Under Radial External Pressure, An Experimental Investigation into the — Z. Malik, J. Morton and C. Ruiz, 87-92 (Mar.).
Buckling of Cylindrical Shells under Combined Axial Preload, Nonuniform Heating and Torque — J. Ari-Gur, M. Baruch and J. Singer, 406-410 (Nov.).
Classification of Stress-intensity Factors from Isochromatic-fringe Patterns — Discussion by August J. Durelli, 336-338 (Sept.).
Classification of Stress-intensity Factors from Isochromatic-fringe Patterns — Errata, 175 (May).
Complete Automatic Analysis of Photoelastic Fringes — R. K. Muller and L. R. Saackel, 245-251 (July).
Composite Laminates, Fracture, by Three-point Bend — Ran Y. Kim, 50-55 (Feb.).
Composite Laminates, Wave Propagation in Transversely Impacted —I. M. Daniel, T. Liber and R. H. LaBedz, 9-16 (Jan.).
Computer-aided Fringe-pattern Analyzer — A Case of Photoelastic Fringe — Y. Seguchi, Y. Tomita and M. Watanabe, 362-370 (Oct.).
Concrete, An Apparatus for Tensile Testing of — S. E. Swartz, K. K. Hu, C. M. Huang and G. L. Jones, 109-111 (Mar.).
Crack Growth in Bi-material Laminates — N. H. Chao and J. A. Alic, 138-144 (Apr.).
Crack Propagation in Rock Plates Loaded by Projectile Impact — Discussion by H. P. Rossmanith, 30 (Jan.).
Cylindrical Shells under Combined Axial Preload, Nonuniform Heating and Torque — J. Ari-Gur, M. Baruch and J. Singer, 406-410 (Nov.).
Cylindrical Surfaces, Convex, Experimental Analysis of the Deformation of — Karl-Hans Laermann, 166-170 (May).
Determination of the a-K Relationship for Birefringent Polymers, On the — G. R. Irwin, J. W. Dally, T. Kobayashi, W. L. Fourney, M. J. Etheridge and H. P. Rossmanith, 121-128 (Apr.).
Determination of Young's Modulus or Poisson's Ratio Using Eddy Currents — Th. Kwaaitaal and A. J. G. Schoofs, 450-455 (Dec.).
Development of High-temperature Biaxial-strain Transducer for Use to 1033°K (1400°F) — M. M. Lemcoe, 56-62 (Feb.).
Digital Filtering of Speckle-photography Data — D. A. Chambless and J. A. Broadway, 286-289 (Aug.).
Dynamic Biaxial Loadings, Yielding of 6061-T6 Aluminum Tubings under — D. H. Y. Ng, M. Delich and L. H. N. Lee, 200-206 (June).
Dynamic Characterization of Poroelastic Material — Y. K. Kim and H. B. Kingsbury, 252-258 (July).
Dynamic Moiré Method for Deformation Measurement of Curved Surfaces, A — Reinhold Ritter, 145-146 (Apr.).
Dynamic Photoelastic Studies of Fracture — 1979 Murray Lecture —James W. Dally, 349-361 (Oct.).
Dynamic Stress-intensity-factor Determination from Isopachics — H. P. Rossmanith, 281-285 (Aug.).
Eddy Currents, Determination of Young's Modulus or Poisson's Ratio Using — Th. Kwaaitaal and A. J. G. Schoofs, 450-455 (Dec.).
Effect of Elevated Temperature on the Calibrated Strain Gages of the YF-12A Wing — J. M. Jenkins, R. A. Fields and W. J. Sefic, 81-86 (Mar.).
Effect of Material Properties on the Radiation of Impact Sound from Cylinders, The — N. E. Dreiman, H. A. Evensen and A. A. Hendrickson, 331-335 (Sept.).
Elastic Moduli of Transversely Isotropic Graphite Fibers and their Composites — R. D. Kris and W. W. Stinchcomb, 41-49 (Feb.).
Elastic Springback in Plates and Beams Formed by Bending — O. M. Sidebottom and C. F. Gebhardt, 371-377 (Oct.).
Elasticity, Manual, Chapter I: Elementary — D. K. Wright, Jr., 31-40 (Jan.).
Elasto-plastic Strains Measured with Strain Gages, On the Evaluation of — S. Keil and D. O. Benning, 265-270 (Aug.).
Error Assessment Using Equidensity Fringes in Photoelasticity — Günter Friedrich, 276-280 (Aug.).
Evaluation of Elasto-Plastic Strains Measured with Strain Gages, On the — S. Keil and O. Benning, 265-270 (Aug.).
Experimental Analysis of the Deformation of Convex Cylindrical Surfaces — Karl-Hans Laermann, 166-170 (May).
Experimental Determination of the Nonlinear Shear Behavior of Fiber-reinforced Laminae under Impact Loading — J. M. Lifshitz and A. Gilat, 444-449 (Dec.).
Experimental Determination of Transverse Vibration Modes of Thin I-shaped Plates — K. Maruyama and O. Ichinomiya, 271-275 (Aug.).
Experimental Investigation Into the Buckling of Cylindrical Shells of Variable Wall Thickness Under Radial External Pressure, An — Z. Malik, J. Morton and C. Ruiz, 87-92 (Mar.).
Experimental Stress Analysis for Process of Nonsteady Inelastic Deformation by Photoviscoplasticity — Tadashi Nishitani, 102-108 (Mar.).
Failure Analysis of Stainless Steel at Elevated Temperatures — C. A. Sciammarella and M. P. K. Rao, 389-398 (Nov.).
Fatigue-crack Opening Load with Measurement Location, On the Variation of — D. E. Macha, D. M. Corbly and J. W. Jones, 207-213 (June).
Finite-element Differentiation, Smooth Spline-like, of Full-field Experimental Data over Arbitrary Geometry — D. J. Segalman, D. B. Woyak and R. E. Rowlands, 429-437 (Dec.).
Fluidic Load Cell, A — Joseph Valentich, 384-388 (Oct.).
Fracture Behavior of Graphite/Epoxy Laminates, The — Y. T. Yeow, D. H. Morris and H. F. Brinson, 1-8 (Jan.).
Fracture Composite Laminates by Three-point Bend — Ran Y. Kim, 50-55 (Feb.).
Fracture Mechanics — Monograph No. 1, Chapter 2 — Albert S. Kobayashi, 456-468 (Dec.).
Fracture of Notched Polymeric Beams Due to Central Impact — W. Goldsmith and F. Katsamanis, 235-244 (July).
Fracture-toughness Tests, Acoustic-emission Analysis of — D. Dilipkumar and W. E. Wood, 416-420 (Nov.).
Fringe-pattern Analyzer, Computer-aided — A Case of Photoelastic Fringe — Y. Seguchi, Y. Tomita and D. M. Watanabe, 362-370 (Oct.).
General Stress-velocity Expression in Acoustoelasticity — F. Bach and V. Askegaard, 69-75 (Feb.).
Graphite/Epoxy Laminates, The Fracture Behavior of — Y. T. Yeow, D. H. Morris and H. F. Brinson, 1-8 (Jan.).
Graphite Fibers and Their Composites, Elastic Moduli of Transversely Isotropic — R. D. Kris and W. W. Stinchcomb, 41-49 (Feb.).
Hole-drilling Method, The Alignment Error of the — Hsin-Pang Wang, 23-27 (Jan.).
Holographic Interferometry, Vibration Analysis of a Spinning Disk Using Image-derorated — J. C. Mac Bain, J. E. Horner, W. A. Stange and J. S. Ogg, 17-22 (Jan.).
Holographic Strain and Stress Determination, The Accuracy of Heterodyne — R. Dändliker and B. Eliasson, 93-101 (Mar.).
Holography, Manual, Chapter VII — Charles E. Taylor, 339-348 (Sept.).
Identification of Resonant Frequency of Rotating Beams with the Use of PZT Crystals — M. Swaminadham, A. Santhanam, K. S. Shankar Pureswaran and J. S. Rao, 76-80 (Feb.).
Integrated-plane Photoelastic Method — Application of Photoelastic Isodynes — S. B. Mazurwiewicz and J. T. Pindera, 225-234 (July).
Interpretation of Shadow-moiré Fringes, On the — Correction by Authors, 220 (June).
Isochromatic-fringe Patterns, Classification of Stress-intensity Factors from — Discussion by August J. Durelli, 336-338 (Sept.).
Isochromatic-fringe Patterns, Classification of Stress-intensity Factors from — Errata, 175 (May).

INDEX TO
EXPERIMENTAL MECHANICS
VOLUME 19, 1979

SUBJECT INDEX

Accuracy of Heterodyne Holographic Strain and Stress Determination, The — R. Dänkliker and B. Eliasson, 93-101 (Mar.).
Acoustic Emission, Amplitude Distribution Analysis of — D. Dilipkumar, V. S. R. Gudimetla and W. E. Wood, 438-443 (Dec.).
Acoustic-emission Analysis of Fracture-toughness Tests — D. Dilipkumar and W. E. Wood, 416-420 (Nov.).
Acoustic-velocity Measurement Across the Diameter of a Liquid-metal Column — C. A. Calder and W. W. Wilcox, 171-174 (May).
Acoustoelasticity, General Stress-velocity Expression in — F. Bach and V. Askegaard, 69-75 (Feb.).
Alignment Error of the Hole-drilling Method, The — Hsin-Pang Wang, 23-27 (Jan.).
Amplitude-distribution Analysis of Acoustic Emission — D. Dilipkumar, V. S. R. Gudmetla and W. E. Wood, 438-443 (Dec.).
Apparatus for Tensile Testing of Concrete, An — S. E. Swartz, K. K. Hu, C. M. Huang and G. L. Jones, 109-111 (Mar.).
Are Measurements of Geometric Imperfections of Plates and Shells Useful? — Discussion by E. E. Sechler and C. D. Babcock, 28-29 (Jan.).
Biaxial Gage Factors for Piezoresistive Strain Gages — William E. Jahsman, 411-415 (Nov.).
Biaxial-strain Transducer, High-temperature for Use to 1033°K (1400°F) — M. Lemcoe, 56-62 (Feb.).
Birefringent Polymers, On the Determination of the a-K Relationship for — G. R. Irwin, J. W. Dally, T. Kobayashi, W. L. Fourney, M. J. Etheridge and H. P. Rossmanith, 121-128 (Apr.).
Brittle Coatings, Manual, Chapter V — Ferdi B. Stern, 221-224 (June).
Buckling of Cylindrical Shells of Variable Wall Thickness Under Radial External Pressure, An Experimental Investigation into the — Z. Malik, J. Morton and C. Ruiz, 87-92 (Mar.).
Buckling of Cylindrical Shells under Combined Axial Preload, Nonuniform Heating and Torque — J. Ari-Gur, M. Baruch and J. Singer, 406-410 (Nov.).
Classification of Stress-intensity Factors from Isochromatic-fringe Patterns — Discussion by August J. Durelli, 336-338 (Sept.).
Classification of Stress-intensity Factors from Isochromatic-fringe Patterns — Errata, 175 (May).
Complete Automatic Analysis of Photoelastic Fringes — R. K. Muller and L. R. Saackel, 245-251 (July).
Composite Laminates, Fracture, by Three-point Bend — Ran Y. Kim, 50-55 (Feb.).
Composite Laminates, Wave Propagation in Transversely Impacted —I. M. Daniel, T. Liber and R. H. LaBedz, 9-16 (Jan.).
Computer-aided Fringe-pattern Analyzer — A Case of Photoelastic Fringe — Y. Seguchi, Y. Tomita and M. Watanabe, 362-370 (Oct.).
Concrete, An Apparatus for Tensile Testing of — S. E. Swartz, K. K. Hu, C. M. Huang and G. L. Jones, 109-111 (Mar.).
Crack Growth in Bi-material Laminates — N. H. Chao and J. A. Alic, 138-144 (Apr.).
Crack Propagation in Rock Plates Loaded by Projectile Impact — Discussion by H. P. Rossmanith, 30 (Jan.).
Cylindrical Shells under Combined Axial Preload, Nonuniform Heating and Torque — J. Ari-Gur, M. Baruch and J. Singer, 406-410 (Nov.).
Cylindrical Surfaces, Convex, Experimental Analysis of the Deformation of — Karl-Hans Laermann, 166-170 (May).
Determination of the a-K Relationship for Birefringent Polymers, On the — G. R. Irwin, J. W. Dally, T. Kobayashi, W. L. Fourney, M. J. Etheridge and H. P. Rossmanith, 121-128 (Apr.).
Determination of Young's Modulus or Poisson's Ratio Using Eddy Currents — Th. Kwaaitaal and A. J. G. Schoofs, 450-455 (Dec.).
Development of High-temperature Biaxial-strain Transducer for Use to 1033°K (1400°F) — M. M. Lemcoe, 56-62 (Feb.).
Digital Filtering of Speckle-photography Data — D. A. Chambless and J. A. Broadway, 286-289 (Aug.).
Dynamic Biaxial Loadings, Yielding of 6061-T6 Aluminum Tubings under — D. H. Y. Ng, M. Delich and L. H. N. Lee, 200-206 (June).
Dynamic Characterization of Poroelastic Material — Y. K. Kim and H. B. Kingsbury, 252-258 (July).
Dynamic Moiré Method for Deformation Measurement of Curved Surfaces, A — Reinhold Ritter, 145-146 (Apr.).
Dynamic Photoelastic Studies of Fracture — 1979 Murray Lecture —James W. Dally, 349-361 (Oct.).
Dynamic Stress-intensity-factor Determination from Isopachics — H. P. Rossmanith, 281-285 (Aug.).
Eddy Currents, Determination of Young's Modulus or Poisson's Ratio Using — Th. Kwaaitaal and A. J. G. Schoofs, 450-455 (Dec.).
Effect of Elevated Temperature on the Calibrated Strain Gages of the YF-12A Wing — J. M. Jenkins, R. A. Fields and W. J. Sefic, 81-86 (Mar.).
Effect of Material Properties on the Radiation of Impact Sound from Cylinders, The — N. E. Dreiman, H. A. Evensen and A. A. Hendrickson, 331-335 (Sept.).
Elastic Moduli of Transversely Isotropic Graphite Fibers and their Composites — R. D. Kris and W. W. Stinchcomb, 41-49 (Feb.).
Elastic Springback in Plates and Beams Formed by Bending — O. M. Sidebottom and C. F. Gebhardt, 371-377 (Oct.).
Elasticity, Manual, Chapter I: Elementary — D. K. Wright, Jr., 31-40 (Jan.).
Elasto-plastic Strains Measured with Strain Gages, On the Evaluation of — S. Keil and D. O. Benning, 265-270 (Aug.).
Error Assessment Using Equidensity Fringes in Photoelasticity — Günter Friedrich, 276-280 (Aug.).
Evaluation of Elasto-Plastic Strains Measured with Strain Gages, On the — S. Keil and O. Benning, 265-270 (Aug.).
Experimental Analysis of the Deformation of Convex Cylindrical Surfaces — Karl-Hans Laermann, 166-170 (May).
Experimental Determination of the Nonlinear Shear Behavior of Fiber-reinforced Laminae under Impact Loading — J. M. Lifshitz and A. Gilat, 444-449 (Dec.).
Experimental Determination of Transverse Vibration Modes of Thin I-shaped Plates — K. Maruyama and O. Ichinomiya, 271-275 (Aug.).
Experimental Investigation Into the Buckling of Cylindrical Shells of Variable Wall Thickness Under Radial External Pressure, An — Z. Malik, J. Morton and C. Ruiz, 87-92 (Mar.).
Experimental Stress Analysis for Process of Nonsteady Inelastic Deformation by Photoviscoplasticity — Tadashi Nishitani, 102-108 (Mar.).
Failure Analysis of Stainless Steel at Elevated Temperatures — C. A. Sciammarella and M. P. K. Rao, 389-398 (Nov.).
Fatigue-crack Opening Load with Measurement Location, On the Variation of — D. E. Macha, D. M. Corbly and J. W. Jones, 207-213 (June).
Finite-element Differentiation, Smooth Spline-like, of Full-field Experimental Data over Arbitrary Geometry — D. J. Segalman, D. B. Woyak and R. E. Rowlands, 429-437 (Dec.).
Fluidic Load Cell, A — Joseph Valentich, 384-388 (Oct.).
Fracture Behavior of Graphite/Epoxy Laminates, The — Y. T. Yeow, D. H. Morris and H. F. Brinson, 1-8 (Jan.).
Fracture Composite Laminates by Three-point Bend — Ran Y. Kim, 50-55 (Feb.).
Fracture Mechanics — Monograph No. 1, Chapter 2 — Albert S. Kobayashi, 456-468 (Dec.).
Fracture of Notched Polymeric Beams Due to Central Impact — W. Goldsmith and F. Katsamanis, 235-244 (July).
Fracture-toughness Tests, Acoustic-emission Analysis of — D. Dilipkumar and W. E. Wood, 416-420 (Nov.).
Fringe-pattern Analyzer, Computer-aided — A Case of Photoelastic Fringe — Y. Seguchi, Y. Tomita and D. M. Watanabe, 362-370 (Oct.).
General Stress-velocity Expression in Acoustoelasticity — F. Bach and V. Askegaard, 69-75 (Feb.).
Graphite/Epoxy Laminates, The Fracture Behavior of — Y. T. Yeow, D. H. Morris and H. F. Brinson, 1-8 (Jan.).
Graphite Fibers and Their Composites, Elastic Moduli of Transversely Isotropic — R. D. Kris and W. W. Stinchcomb, 41-49 (Feb.).
Hole-drilling Method, The Alignment Error of the — Hsin-Pang Wang, 23-27 (Jan.).
Holographic Interferometry, Vibration Analysis of a Spinning Disk Using Image-derorated — J. C. Mac Bain, J. E. Horner, W. A. Stange and J. S. Ogg, 17-22 (Jan.).
Holographic Strain and Stress Determination, The Accuracy of Heterodyne — R. Dändliker and B. Eliasson, 93-101 (Mar.).
Holography, Manual, Chapter VII — Charles E. Taylor, 339-348 (Sept.).
Identification of Resonant Frequency of Rotating Beams with the Use of PZT Crystals — M. Swaminadham, A. Santhanam, K. S. Shankar Pureswaran and J. S. Rao, 76-80 (Feb.).
Integrated-plane Photoelastic Method — Application of Photoelastic Isodynes — S. B. Mazurwiewicz and J. T. Pindera, 225-234 (July).
Interpretation of Shadow-moiré Fringes, On the — Correction by Authors, 220 (June).
Isochromatic-fringe Patterns, Classification of Stress-intensity Factors from — Discussion by August J. Durelli, 336-338 (Sept.).
Isochromatic-fringe Patterns, Classification of Stress-intensity Factors from — Errata, 175 (May).

Isopachics, Dynamic Stress-intensity-factor Determination from — H. P. Rossmanith, 281-285 (Aug.).
Laminates, Crack Growth in Bi-material — N. H. Chao and J. A. Alic, 138-144 (Apr.).
Lateral Deflection of a Sandwich-panel Building Model under Combined Loading — S. Rizzo and P. Fazio, 193-199 (June).
Limitations and Corrections in Measuring Structural Dynamics — P. L. Walter and H. D. Nelson, 309-316 (Sept.).
Liquid-metal Column, Acoustic-velocity Measurement Across the Diameter of a — C. A. Calder and W. W. Wilcox, 171-174 (May).
Load Cell, A Fluidic — Joseph Valentich, 384-388 (Oct.).
Machine for Static and Dynamic Triaxial Testing, A — P. E. Senseny, H. E. Lindberg and T. C. Kennedy, 63-68 (Feb.).
Manual, Chapter I: Elementary Elasticity — D. K. Wright, Jr., 31-40 (Jan.).
Manual, Chapter II — Bonded Resistance Strain Gages — L. J. Weymouth, J. E. Starr and J. Dorsey, 112-120 (Mar.).
Manual, Chapter III — Mechanical Strain Indicators and Recorder — Richard H. Prewitt, 147-152 (Apr.).
Manual, Chapter IV — Photoelasticity — Daniel Post, 176-192 (May).
Manual, Chapter V — Brittle Coatings — Ferdi B. Stern, 221-224 (June).
Manual, Chapter VI — Moiré Methods of Strain Analysis — Fu-Pen Chiang, 290-308 (Aug.).
Manual, Chapter VII — Holography — Charles E. Taylor, 339-348 (Sept.).
Manual, Chapter VIII — Statistical Treatment of Experimental Data — James W. Dally, 421-428 (Nov.).
Measurement of Creep in Rotating Viscoelastic Disks — Ronald F. Gibson, 378-383 (Oct.).
Miniature Piezoresistive Transducers for Transient Soft-body Contact-stress Problems — T. D. Brown and D. R. Muratori, 214-219 (June).
Moiré Gratings for High Temperature and Long Times — G. Cloud, R. Radke and J. Peiffer, 19N-21N (Oct.).
Moiré Method for Deformation Measurement of Curved Surfaces, A Dynamic — Reinhold Ritter, 145-146 (Apr.).
Moiré Methods of Strain Analysis, Manual, Chapter VI — Fu-Pen Chiang, 290-308 (Aug.).
Monograph No. 1, Chapter 2 — Fracture Mechanics — Albert S. Kobayashi, 456-468 (Dec.).
New Aspects of Surface Displacement and Strain Analysis by Speckle Interferometry — J. Brdicko, M. D. Olson and C. R. Hazell, 160-165 (May).
Optimization of Geometric Discontinuities in Stress Fields — Discussion by Henry O. Fuchs, 175 (May).
Photoelastic Fringes, Complete Automatic Analysis of — R. K. Muller and L. R. Saackel, 245-251 (July).
Photoelastic Method Integrated Plane — Application of Photoelastic Isodynes — S. B. Mazurkiewicz and J. T. Pindera, 225-234 (July).
Photoelastic Studies, Dynamic, of Fracture — 1979 Murray Lecture — James W. Dally, 349-361 (Oct.).
Photoelastic Study of Stresses in Rack Gears, Three-dimensional — N. A. Rubayi and H. W. Tam, 153-159 (May).
Photoelasticity, Error Assessment Using Equidensity Fringes in — Günter Friedrich, 276-280 (Aug.).
Photoelasticity, Manual, Chapter IV — Daniel Post, 176-192 (May).
Photoviscoplasticity, Experimental Stress Analysis for Process of Nonsteady Inelastic Deformation by — Tadashi Nishitani, 102-108 (Mar.).
Piezoresistive Transducers for Transient Soft-body Contact-stress Problems, Miniature — T. D. Brown and D. R. Muratori, 214-219 (June).
Plates and Beams Formed by Bending, Elastic Springback in — O. M. Sidebottom and C. F. Gebhardt, 371-377 (Oct.).
Polyester Model Materials, On the Strain-rate Effects in — John Morton, 19N-20N (Jan.).
Polymeric Beams, Fracture of Notched, Due to Central Impact — W. Goldsmith and F. Katsamanis, 235-244 (July).
Poroelastic Materials, Dynamic Characterization of — Y. K. Kim and H. B. Kingsbury, 252-258 (July).
Pressure Measurements, Thermal-transient Effects on — C. K. Chan and M. E. Simpson, 324-330 (Sept.).
Radiation of Impact Sound from Cylinders, The Effect of Material Properties on the — N. I. Dreiman, H. A. Evensen and A. A. Hendrickson, 331-335 (Sept.).
Residual-stress Measurement on Multi-pass Weldments of Stainless-steel Piping — W. A. Ellingson and W. J. Stack, 317-323 (Sept.).
Resonant Frequency of Rotating Beams with the Use of PZT Crystals, Identification of — M. Swaminadham, A. Santhanam, K. S. Shankar Pureswaran and J. S. Rao, 76-80 (Feb.).
Rock Plates Loaded by Projectile Impact, Crack Propagation — Discussion by H. P. Rossmanith, 30 (Jan.).
Sandwich-panel Building Model under Combined Loading, Lateral Deflection of a — S. Rizzo and P. Fazio, 193-199 (June).
Shadow-moiré Fringes, On the Interpretation of — Correction by Authors, 220 (June).
Shear Behavior, Nonlinear, of Fiber-reinforced Laminae under Impact Loading, Experimental Determination — J. M. Lifshitz and A. Gilat, 444-449 (Dec.).
Shearing Interferometer, Slope and Curvature Measurement by a Double-frequency-grating — A. Assa, J. Politch and A. A. Betser, 129-137 (Apr.).
Slope and Curvature Measurement by a Double-frequency-grating Shearing Interferometer — A. Assa, J. Politch and A. A. Betser, 139-137 (Apr.).
Smooth Spline-like Finite-element Differentiation of Full-field Experimental Data over Arbitrary Geometry — D. J. Segalman, D. B. Woyak and R. E. Rowlands, 429-437 (Dec.).
Speckle Interferometry, New Aspects of Surface Displacement and Strain Analysis by — J. Brdicko, M. D. Olson and C. R. Hazell, 160-165 (May).
Speckle-photography Data, Digital Filtering of — D. A. Chambless and J. A. Broadway, 286-289 (Aug.).
Stainless Steel at Elevated Temperatures, Failure Analysis of — C. A. Sciammarella and M. P. K. Rao, 389-398 (Nov.).
Static and Dynamic Triaxial Testing, A Machine for — P. E. Senseny, H. E. Lindberg and T. E. Kennedy, 63-68 (Feb.).
Statistical Treatment of Experimental Data, Manual, Chapter VIII — James W. Dally, 421-428 (Nov.).
Steam-turbine Nozzle-chamber Model, Thermal Tests of — Richard H. Marloff, 399-405 (Nov.).
Strain Analysis by Speckle Interferometry, New Aspects of Surface Displacement and — J. Brdicko, M. D. Olson and C. R. Hazell, 160-165 (May).
Strain Analysis, Moiré Methods of, Manual, Chapter VI — Fu-Pen Chiang, 290-308 (Aug.).
Strain Gages, Manual, Chapter 2 — Bonded Resistance — L. J. Weymouth, J. E. Starr and J. Dorsey, 112-120 (Mar.).
Strain Gages of the YF-12A Wing, Effect of Elevated Temperature on the Calibrated — J. M. Jenkins, R. A. Fields and W. J. Sefic, 81-86 (Mar.).
Strain Gages, On the Evaluation of Elasto Plastic Strains Measured with — S. Keil and D. O. Benning, 265-270 (Aug.).
Strain Gages, Piezoresistive, Biaxial Gage Factors for — William E. Jahsman, 411-415 (Nov.).
Strain Indicators and Recorders, Mechanical — Manual, Chapter III — Richard H. Prewitt, 147-152 (Apr.).
Strain-rate, Effects in Polyester Model Materials, On the — John Morton, 19N-20N (Jan.).
Strain, Transient Longitudinal, Changes During Welding — Y. L. Wan, M. J. Bibby and J. A. Goldak, 259-264 (July).
Stress Fields, Optimization of Geometric Discontinuities in — Discussion by Henry O. Fuchs, 175 (May).
Stress-intensity-factor, Dynamic, Determination from Isopachics — H. P. Rossmanith, 281-285 (Aug.).
Structural Dynamics, Limitations and Corrections in Measuring — P. L. Walter and H. D. Nelson, 309-316 (Sept.).
Thermal Tests of a Steam-turbine Nozzle-chamber Model — 399-405 (Nov.).
Thermal-transient Effects on Pressure Measurements — C. K. Chann and M. E. Simpson, 324-330 (Sept.).
Three-dimensional Photoelastic Study of Stresses in Rack Gears — N. A. Rubayi and H. W. Tam, 153-159 (May).
Transducer for Use to 1033°K (1400°F), Development of High-temperature Biaxial-strain — M. M. Lemcoe, 56-62 (Feb.).
Transient Longitudinal Strain Changes During Welding — Y. L. Wan, M. J. Bibby and J. A. Goldak, 259-264 (July).
Variation of Fatigue-crack-opening Load with Measurement Location, On the — D. E. Macha, D. M. Corbly and J. W. Jones, 207-213 (June).
Vibration Analysis of a Spinning Disk Using Image-derotated Holographic Interferometry — J. C. MacBain, J. E. Horner, W. A. Stange and J. S. Ogg, 17-22 (Jan.).
Viscoelastic Disks, Measurement of Creep in Rotating — Ronald F. Gibson, 378-383 (Oct.).
Vibration Modes, Transverse, of Thin I-shaped Plates, Experimental Determination — K. Maruyama and O. Ichinomiya, 271-275 (Aug.).
Wave Propagation in Transversely Impacted Composite Laminates I. M. Daniel, T. Liber and R. H. LaBedz, 9-16 (Jan.).
Weldments, Multipass, of Stainless-steel Piping, Residual-stress Measurement on — W. A. Ellingson and W. J. Stack, 317-323 (Sept.).
Yielding of 6061-T6 Aluminum Tubings under Dynamic Biaxial Loadings — D. H. Y. Ng, M. Delich and L. H. N. Lee, 200-206 (June).

AUTHOR INDEX

Alic, J. A. — Crack Growth in Bi-material Laminates, 138-144 (Apr.).
Ari-Gur, J. — Buckling of Cylindrical Shells under Combined Axial Preload, Nonuniform Heating and Torque, 406-410 (Nov.).
Askegaard, V. — General Stress–Velocity Expression in Acousto-elasticity, 69-75 (Feb.).
Assa, A. — Slope and Curvature Measurement by a Double-frequency-grating Shearing Interferometer, 129-137 (Apr.).
Babcock, C. D. — Are Measurements of Geometric Imperfections of Plates and Shells Useful? 28-29 (Jan.). Discussion.
Bach, F. — General Stress–Velocity Expression in Acoustoelasticity, 69-75 (Feb.).
Baruch, M. — Buckling of Cylindrical Shells under Combined Axial Preload, Nonuniform Heating and Torque, 406-410 (Nov.).
Benning, O. — On the Evaluation of Elasto–Plastic Strains Measured with Strain Gages, 265-270 (Aug.).
Betser, A. A. — Slope and Curvature Measurement by a Double-frequency-grating Shearing Interferometer, 129-137 (Apr.).
Bibby, M. J. — Transient Longitudinal Strain Changes During Welding, 259-264 (July).
Broadway, J. A. — Digital Filtering of Speckle-photography Data, 286-289 (Aug.).
Brdicko, J. — New Aspects of Surface Displacement and Strain Analysis by Speckle Interferometry, 160-165 (May).
Brinson, H. F. — The Fracture Behavior of Graphite/Epoxy Laminates, 1-8 (Jan.).
Brown, T. D. — Miniature Piezoresistive Transducers for Transient Soft-body Contact-stress Problems, 214-219 (June).
Buitrago, J. — On the Interpretation of Shadow-moiré Fringes, Correction by Authors, 220 (June).
Calder, C. A. — Acoustic-velocity Measurement Across the Diameter of a Liquid-metal Column, 171-174 (May).
Chambless, D. A. — Digital Filtering of Speckle-photography Data, 286-289 (Aug.).
Chan, C. K. — Thermal-transient Effects on Pressure Measurements, 324-330 (Sept.).
Chao, N. H. — Crack Growth in Bi-material Laminates, 138-144 (Apr.).
Chiang, F.-P. — Manual, Chapter VI: Moiré Methods of Strain Analysis, 290-308 (Aug.).
Cloud, G. — Moiré Gratings for High Temperatures and Long Times, 19N-21N (Oct.).
Corbly, D. M. — On the Variation of Fatigue-crack-opening Load with Measurement Location, 207-214 (June).
Dally, J. W. — On the Determination of the á-K Relationship for Birefringent Polymers, 121-128 (Apr.).
Dally, J. W. — Errata: Classification of Stress-intensity Factors from Isochromatic-fringe Patterns, 175 (May).
Dally, J. W. — Dynamic Photoelastic Studies of Fracture, 349-361 (Oct.).
Dally, J. W. — Manual, Chapter VIII: Statistical Treatment of Experimental Data, 421-428 (Nov.).
Dändliker, R. — The Accuracy of Heterodyne Holographic Strain and Stress Determination, 93-101 (Mar.).

Daniel, I. M. — Wave Propagation in Transversely Impacted Composite Laminates, 9-16 (Jan.).
Delich, M. — Yielding of 6061-T6 Aluminum Tubings under Dynamic Biaxial Loadings, 200-206 (June).
Dilipkumar, D. — Acoustic-emission Analysis of Fracture-toughness Tests, 416-420 (Nov.).
Dilipkumar, D. — Amplitude-distribution Analysis of Acoustic Emission, 438-443 (Dec.).
Dorsey, J. — Manual, Chapter 2: Bonded Resistance Strain Gages, 112-120 (Mar.).
Dreiman, N. L. — The Effect of Material Properties on the Radiation of Impact Sound from Cylinders, 331-335 (Sept.).
Durelli, A. J. — On the Interpretation of Shadow-moiré Fringes, Correction by Authors, 220 (June).
Durelli, A. J. — Discussion of Classification of Stress-intensity Factors from Isochromatic-fringe Patterns, 336-338 (Sept.).
Eliasson, B. — The Accuracy of Heterodyne Holographic Strain and Stress Determination, 93-101 (Mar.).
Ellingson, W. A. — Residual-stress Measurement on Multi-pass Weldments of Stainless-steel Piping, 317-323 (Sept.).
Etheridge, M. J. — On the Determination of the a-K Relationship for Birefringent Polymers, 121-128 (Apr.).
Evensen, H. A. — The Effect of Material Properties on the Radiation of Impact Sound from Cylinders, 331-335 (Sept.).
Fazio, P. — Lateral Deflection of a Sandwich-panel Building Model under Combined Loading, 193-199 (June).
Fields, R. A. — Effect of Elevated Temperature on the Calibrated Strain Gages of the YF-12A Wing, 81-86 (Mar.).
Fourney, W. L. — On the Determination of the a-K Relationship for Birefringent Polymers, 121-128 (Apr.).
Friedrich, G. — Error Assessment Using Equidensity Fringes in Photoelasticity, 276-280 (Aug.).
Fuchs, H. O. — Discussion of Optimization of Geometric Discontinuities in Stress Fields, 175 (May).
Gebhardt, C. F. — Elastic Springback in Plates and Beams Formed by Bending, 371-377 (Oct.).
Gibson, R. F. — Measurement of Creep in Rotating Viscoelastic Disks, 378-383 (Oct.).
Gilat, A. — Experimental Determination of Nonlinear Shear Behavior of Fiber-reinforced Laminae under Impact Loading, 444-449 (Dec.).
Goldak, J. A. — Transient Longitudinal Strain Changes During Welding, 259-264 (July).
Goldsmith, W. — Fracture of Notched Polymeric Beams Due to Central Impact, 235-244 (July).
Gudimetla, V. S. R. — Amplitude-distribution Analysis of Acoustic Emission, 438-443 (Dec.).
Hazell, C. R. — New Aspects of Surface Displacement and Strain Analysis by Speckle Interferometry, 160-165 (May).
Hendrickson, A. A. — The Effect of Material Properties on the Radiation of Impact Sound from Cylinders, 331-335 (Sept.).
Horner, J. E. — Vibration Analysis of a Spinning Disk Using Image-derotated Holographic Interferometry, 17-22 (Jan.).
Hu, K. K. — An Apparatus for Tensile Testing of Concrete, 109-111 (Mar.).
Huang, C. M. — An Apparatus for Tensile Testing of Concrete, 109-111 (Mar.).
Ichinomiya, O. — Experimental Determination of Transverse Vibration Modes of Thin I-shaped Plates, 271-275 (Aug.).
Irwin, G. R. — On the Determination of the a-K Relationship for Birefringent Polymers, 121-128 (Apr.).
Jahsman, W. E. — Biaxial Gage Factors for Piezoresistive Strain Gages, 411-415 (Nov.).
Jenkins, J. M. — Effect of Elevated Temperature on the Calibrated Strain Gages of the YF-12A Wing, 81-86 (Mar.).
Jones, G. L. — An Apparatus for Tensile Testing of Concrete, 109-111 (Mar.).
Jones, J. W. — On the Variation of Fatigue-crack-opening Load with Measurement Location, 207-214 (June).
Katsamanis, F. — Fracture of Notched Polymeric Beams Due to Central Impact, 235-244 (July).
Keil, S. — On the Evaluation of Elasto-Plastic Strains Measured with Strain Gages, 265-270 (Aug.).
Kennedy, T. C. — A Machine for Static and Dynamic Triaxial Testing, 63-68 (Feb.).
Kim, Ran Y. — Fracture Composite Laminates by Three-point Bend, 50-55 (Feb.).
Kim, Y. K. — Dynamic Characterization of Poroelastic Materials, 252-258 (July).
Kingsbury, H. B. — Dynamic Characterization of Poroelastic Materials, 252-258 (July).
Kobayashi, A. S. — Monograph No. 1, Chapter 2: Fracture Mechanics, 456-468 (Dec.).
Kobayashi, T. — On the Determination of a-K Relationship for Birefringent Polymers, 121-128 (Apr.).
Kris, R. D. — Elastic Moduli of Transversely Isotropic Graphite Fibers and Their Composites, 41-49 (Feb.).
Kwaaitaal, T. H. — Determination of Young's Modulus or Poisson's Ratio Using Eddy Currents, 450-455 (Dec.).
LaBedz, R. H. — Wave Propagation in Transversely Impacted Composite Laminates, 9-16 (Jan.).
Laermann, K.-H. — Experimental Analysis of the Deformation of Convex Cylindrical Surfaces, 166-170 (May).
Lee, L. H. N. — Yielding of 6061-T6 Aluminum Tubings under Dynamic Biaxial Loadings, 200-206 (June).
Lemcoe, M. M. — Development of High-temperature Biaxial-strain Transducer for Use to 1033°K (1400°F), 56-62 (Feb.).
Liber, T. — Wave Propagation in Transversely Impacted Composite Laminates, 9-16 (Jan.).
Lifshitz, J. M. — Experimental Determination of Nonlinear Shear Behavior of Fiber-reinforced Laminae under Impact Loading, 444-449 (Dec.).
Lindberg, H. E. — A Machine for Static and Dynamic Triaxial Testing, 63-68 (Feb.).
MacBain, J. C. — Vibration Analysis of a Spinning Disk Using Image-derotated Holographic Interferometry, 17-22 (Jan.).
Macha, D. E. — On the Variation of Fatigue-crack-opening Load with Measurement Location, 207-214 (June).
Malik, Z. — An Experimental Investigation Into the Buckling of Cylindrical Shells of Variable Wall Thickness Under Radial External Pressure, 87-92 (Mar.).
Marloff, R. H. — Thermal Tests of a Steam-turbine Nozzle-chamber Model, 399-405 (Nov.).
Maruyama, K. — Experimental Determination of Transverse Vibration Modes of Thin I-shaped Plates, 271-275 (Aug.).
Mazurkiewicz, S. B. — Integrated-plane Photoelastic Method-application of Photoelastic Isodynes, 225-234 (July).
Morris, D. H. — The Fracture Behavior of Graphite/Epoxy Laminates, 1-8 (Jan.).
Morton, J. — An Experimental Investigation Into the Buckling of Cylindrical Shells of Variable Wall Thickness Under Radial External Pressure, 87-92 (Mar.).
Müller, R. K. — Complete Automatic Analysis of Photoelastic Fringes, 245-251 (July).
Muratori, D. R. — Miniature Piezoresistive Transducers for Transient Soft-body Contact-stress Problems, 214-219 (June).
Nelson, H. D. — Limitations and Corrections in Measuring Structural Dynamics, 309-316 (Sept.).
Ng, D. H. Y. — Yielding of 6061-T6 Aluminum Tubings under Dynamic Biaxial Loadings, 200-206 (June).
Nishitani, T. — Experimental Stress Analysis for Process of Non-steady Inelastic Deformation by Photoviscoplasticity, 102-108 (Mar.).
Ogg, J. S. — Vibration Analysis of a Spinning Disk Using Image-derotated Holographic Interferometry, 17-22 (Jan.).
Olson, M. D. — New Aspects of Surface Displacement and Strain Analysis by Speckle Interferometry, 160-165 (May).
Peiffer, J. — Moiré Gratings for High Temperatures and Long Times, 19N-21N (Oct.).
Pindera, J. T. — Integrated-plane Photoelastic Method-Application of Photoelastic Isodynes, 225-234 (July).
Politch, J. — Slope and Curvature Measurement by a Double-frequency-grating Shearing Interferometer, 129-137 (Apr.).
Post, D. — Manual, Chapter IV: Photoelasticity, 176-192 (May).
Prewitt, R. H. — Manual, Chapter 3: Mechanical Strain Indicators and Recorders, 147-152 (Apr.).
Radke, R. — Moiré Gratings for High Temperatures and Long Times, 19N-21N (Oct.).
Rao, J. S. — Identification of Resonant Frequencies of Rotating Beams with the Use of PZT Crystals, 76-80 (Feb.).
Rao, M. P. K. — Failure Analysis of Stainless Steel at Elevated Temperatures, 389-398 (Nov.).
Ritter, R. — A Dynamic Moiré Method for Deformation Measurement of Curved Surfaces, 145-146 (Apr.).
Rizzo, S. — Lateral Deflection of a Sandwich-panel Building Model under Combined Loading, 193-199 (June).
Rossmanith, H. P. — Crack Propagation in Rock Plates Loaded by Projectile Impact, 30 (Jan.), Discussion.
Rossmanith, H. P. — On the Determination of the a-K Relationship for Birefringent Polymers, 121-128 (Apr.).
Rossmanith, H. P. — Dynamic Stress-intensity-factor Determination from Isopachics, 281-285 (Aug.).
Rowlands, R. E. — Smooth Spline-like Finite-element Differentiation of Full-field Experimental Data over Arbitrary Geometry, 429-437 (Dec.).
Rubayi, N. A. — Three-dimensional Photoelastic Study of Stresses in Rack Gears, 153-159 (May).
Ruiz, C. — An Experimental Investigation Into the Buckling of Cylindrical Shells of Variable Wall Thickness Under Radial External Pressure, 87-92 (Mar.).
Saackel, L. R. — Complete Automatic Analysis of Photoelastic Fringes, 245-251 (July).
Sanford, R. J. — Errata: Classification of Stress-intensity Factors from Isochromatic-fringe Patterns, 175 (May).
Santhanam, A. — Identification of Resonant Frequency of Rotating Beams with the Use of PZT Crystals, 76-80 (Feb.).
Schoofs, A. J. V. — Determination of Young's Modulus or Poisson's Ratio Using Eddy Currents, 450-455 (Dec.).
Sciammarella, C. A. — Failure Analysis of Stainless Steel at Elevated Temperatures, 389-398 (Nov.).
Sechler, E. E. — Are Measurements of Geometric Imperfections of Plates and Shells Useful? 28-29 (Jan.). Discussion.
Sefic, W. J. — Effect of Elevated Temperature on the Calibrated Strain Gages of the YF-12A Wing, 81-86 (Mar.).
Segalman, D. J. — Smooth Spline-like Finite-element Differentiation of Full-field Experimental Data over Arbitrary Geometry, 429-437 (Dec.).
Seguchi, Y. — Computer-aided Fringe-pattern Analyzer — A Case of Photoelastic Fringe, 362-370 (Oct.).
Senseny, P. E. — A Machine for Static and Dynamic Triaxial Testing, 63-68 (Feb.).
Shankar Pureswaran, K. S. — Identification of Resonant Frequencies of Rotating Beams with the Use of PZT Crystals, 76-80 (Feb.).
Sidebottom, O. M. — Elastic Springback in Plates and Beams Formed by Bending, 371-377 (Oct.).
Simpson, M. E. — Thermal-transient Effects on Pressure Measurements, 324-330 (Sept.).
Singer, J. — Buckling of Cylindrical Shells under Combined Axial Preload, Nonunifirm Heating and Torque, 406-410 (Nov.).
Stack, W. J. — Residual-stress Measurement on Multi-pass Weldments of Stainless-steel Piping, 317-323 (Sept.).
Stange, W. A. — Vibration Analysis of a Spinning Disk Using Image-derotated Holographic Interferometry, 17-22 (Jan.).
Starr, J. E. — Manual, Chapter 2: Bonded Resistance Strain Gages, 112-120 (Mar.).
Stern, F. B. — Manual, Chapter 5: Brittle Coatings, 221-224 (June).
Stinchcomb, W. W. — Elastic Moduli of Transversely Isotropic Graphite Fibers and Their Composites, 41-49 (Feb.).
Swaminadham, M. — Identification of Resonant Frequency of Rotating Beams with the Use of PZT Crystals, 76-80 (Feb.).
Swartz, S. E. — An Apparatus for Tensile Testing of Concrete, 109-111 (Mar.).
Tam, H. W. — Three-dimensional Photoelastic Study of Stresses in Rack Gears, 153-159 (May).
Taylor, C. E. — Manual, Chapter VII. Holography, 339-348 (Sept.).
Tomita, Y. — Computer-aided Fringe-pattern Analyzer — A Case of Photoelastic Fringe, 362-370 (Oct.).
Valentich, J. — A Fluidic Load Cell, 384-388 (Oct.).
Yeow, Y. T. — The Fracture Behavior of Graphite/Epoxy Laminates, 1-8 (Jan.).
Walter, P. L. — Limitations and Corrections in Measuring Structural Dynamics, 309-316 (Sept.).
Wan, Y. L. — Transient Longitudinal Strain Changes During Welding, 259-264 (July).
Wang, H. P. — The Alignment Error of the Hole-drilling Method, 23-27 (Jan.).
Watanabe, M. — Computer-aided Fringe-pattern Analyzer — A Case of Photoelastic Fringe, 362-370 (Oct.).
Weymouth, L. J. — Manual, Chapter 2: Bonded Resistance Strain Gages, 112-120 (Mar.).
Wilcox, W. W. — Acoustic-velocity Measurement Across the Diameter of a Liquid-metal Column, 171-174 (May).
Wood, W. E. — Acoustic-emission Analysis of Fracture-toughness Tests, 416-420 (Nov.).
Wood, W. E. — Amplitude-distribution Analysis of Acoustic Emission, 434-439 (Dec.).
Woyak, D. B. — Smooth Spline-like Finite-element Differentiation of Full-field Experimental Data over Arbitrary Geometry, 429-437 (Dec.).
Wright, D. K., Jr. — Manual, Chapter 1: Elementary Elasticity, 31-40 (Jan.).